

# PATENT ABSTRACTS OF JAPAN

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## (54) STARTER OF ENGINE

(57)Abstract:

PURPOSE: To start an engine easily and smoothly by providing a valve body which closes a passage communicating a combustion chamber with atmosphere against an elastic unit by means of an explosion force in the combustion chamber.

CONSTITUTION: When an engine is started, the engine began to be rotated by a recoil starter to introduce air-fuel mixture to be compressed by a piston 2 from a check valve 17 to an accumulating chamber 15 and to discharge to the atmosphere through a communicating passage 21 wherein a valve body 19 is in a released condition by means an elastic unit 23. The reaction force of a compressing pressure is eliminated in a combustion chamber accordingly, the rotation is easily performed by the recoil starter. When the air-fuel mixture is ignited by an ignition plug 5, an explosion force is introduced

from the check valve 17 to the accumulating chamber 15 to press up the valve body 19 against the elastic unit 23 and close the communicating passage 21, then the engine begins to rotate automatically. The explosion force 15 is kept in the accumulating chamber 15 and the valve body 19 is closed by pressure, so that the closure condition of the valve body 19 is maintained irrespective of pressure change in the combustion chamber 3.

